

INTERNATIONAL SEARCH REPORT

II **al Application No**

PCT/IB 03/00235

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L25/02 H04L27/26 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y AA	<p>MUNETAS ET AL: "A NEW FREQUENCY-DOMAIN LINK ADAPTATION SCHEME FOR BROADBAND OFDM SYSTEMS"</p> <p>VTC 1999-FALL. IEEE VTS 50TH. VEHICULAR TECHNOLOGY CONFERENCE. GATEWAY TO THE 21ST. CENTURY COMMUNICATIONS VILLAGE. AMSTERDAM, SEPT. 19 - 22, 1999, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, USA,</p> <p>vol. 1 CONF. 50,</p> <p>September 1999 (1999-09), pages 253-257, XP000929050</p> <p>ISBN: 0-7803-5436-2</p> <p>cited in the application section 3</p>	<p>1,2,4-8, 10-16</p>
A	<p style="text-align: center;">—</p> <p style="text-align: center;">-/-</p>	<p>3,9</p>

X

Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

13 August 2003

Date of mailing of the international search report

21/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer _____

Orozco Roura, C

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y AB	NUNES M ET AL: "Effects of downlink intercell interference on MC-CDMA system performance" PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1998. THE NINTH IEEE INTERNATIONAL SYMPOSIUM ON BOSTON, MA, USA 8-11 SEPT. 1998, NEW YORK, USA, vol. 3, 8 September 1998 (1998-09-08), pages 1050-1054, XP010314659 ISBN: 0-7803-4872-9 page 1051, last paragraph	1,2,4-8, 10-16
A		3,9
A AC	ONIZAWA T ET AL: "A SIMPLE ADAPTIVE CHANNEL ESTIMATION SCHEME FOR OFDM SYSTEMS" VTC 1999-FALL. IEEE VTS 50TH. VEHICULAR TECHNOLOGY CONFERENCE. GATEWAY TO THE 21ST. CENTURY COMMUNICATIONS VILLAGE. AMSTERDAM, SEPT. 19 - 22, 1999, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, USA, vol. 1 CONF. 50, September 1999 (1999-09), pages 279-283, XP000929055 ISBN: 0-7803-5436-2 page 281 page 282, last paragraph	1-16